

FIGURE 1

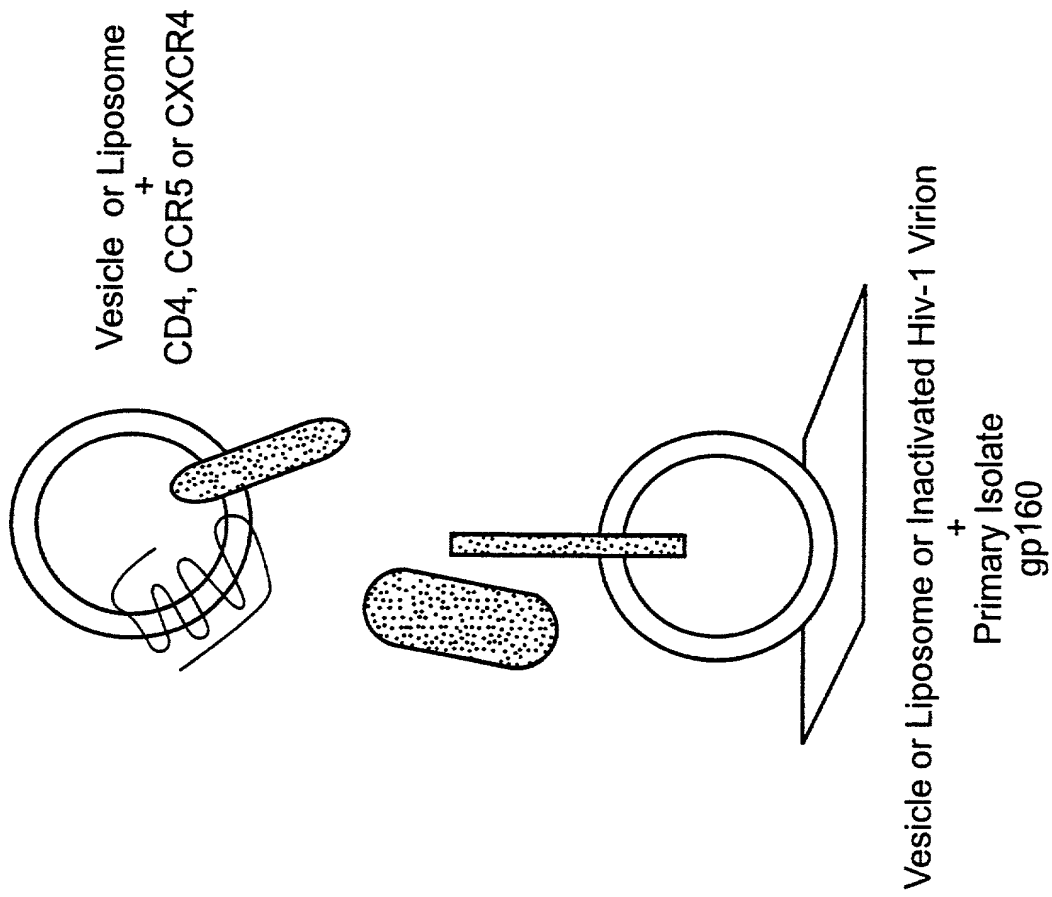


FIGURE 2

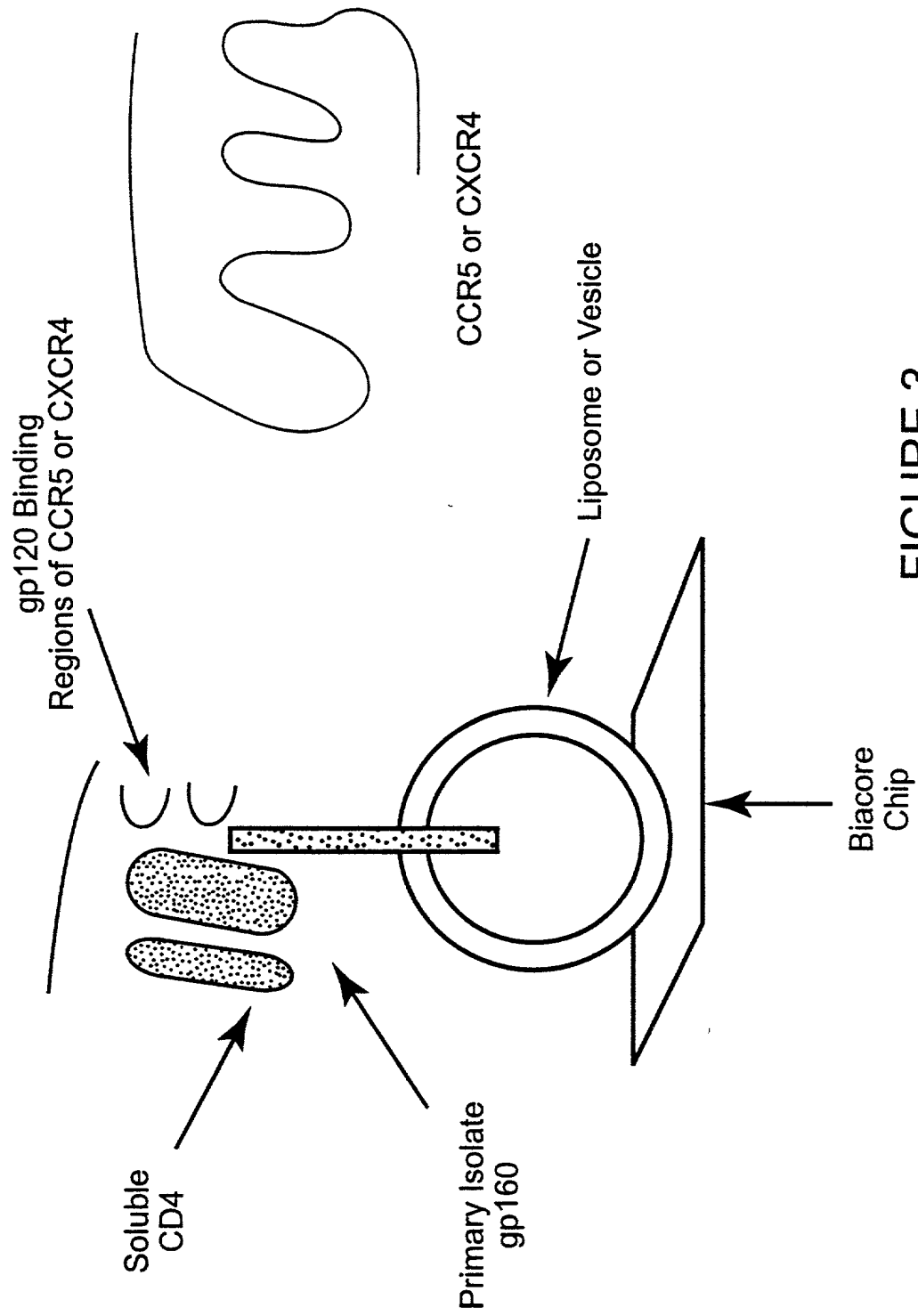


FIGURE 3

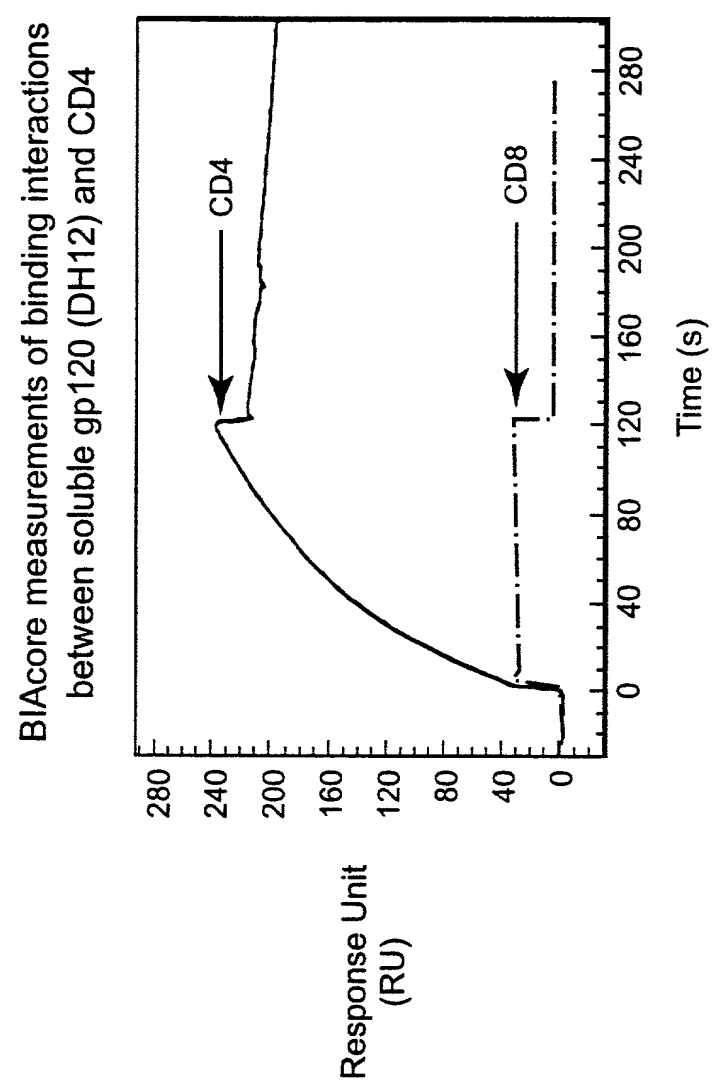


FIGURE 4

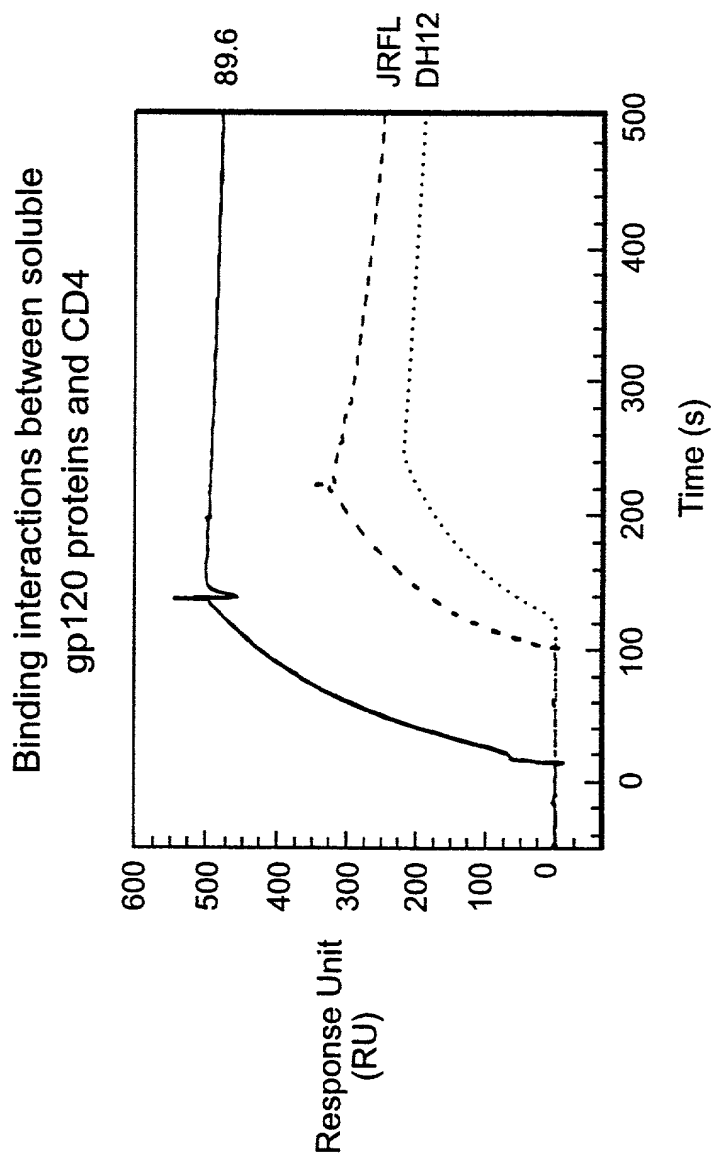


FIGURE 5

Kinetics and binding affinities of the interactions
between gp120 and CD4

gp120	$k_a M^{-1} s^{-1}$ (on-rate)	$k_d s^{-1}$ (off-rate)	K_d M	$t_{1/2}$ min
JRFL	6.0×10^3	8.84×10^{-4}	1.5×10^{-7}	14
DH12	4.9×10^3	3.86×10^{-4}	7.8×10^{-8}	30
89.6	4.6×10^3	8.48×10^{-5}	1.8×10^{-8}	136

FIGURE 6

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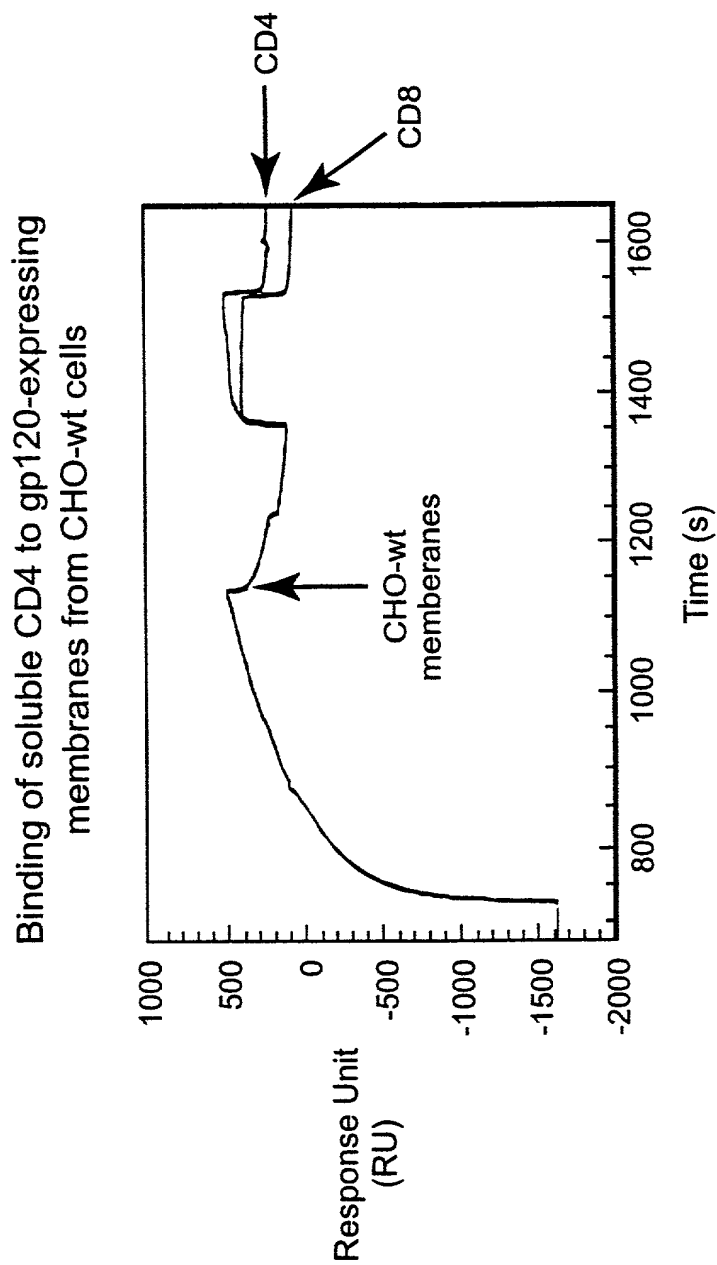


FIGURE 7

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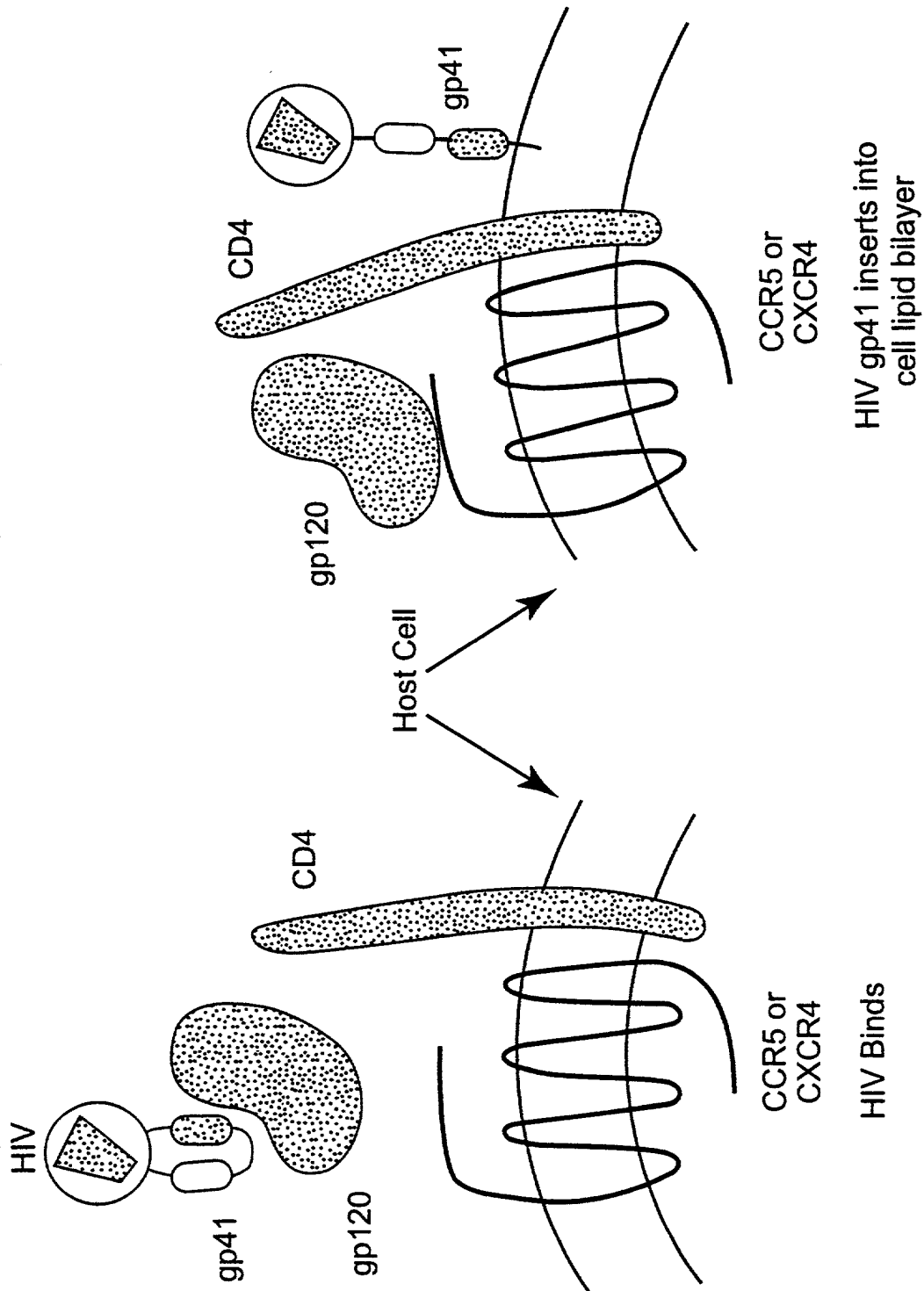
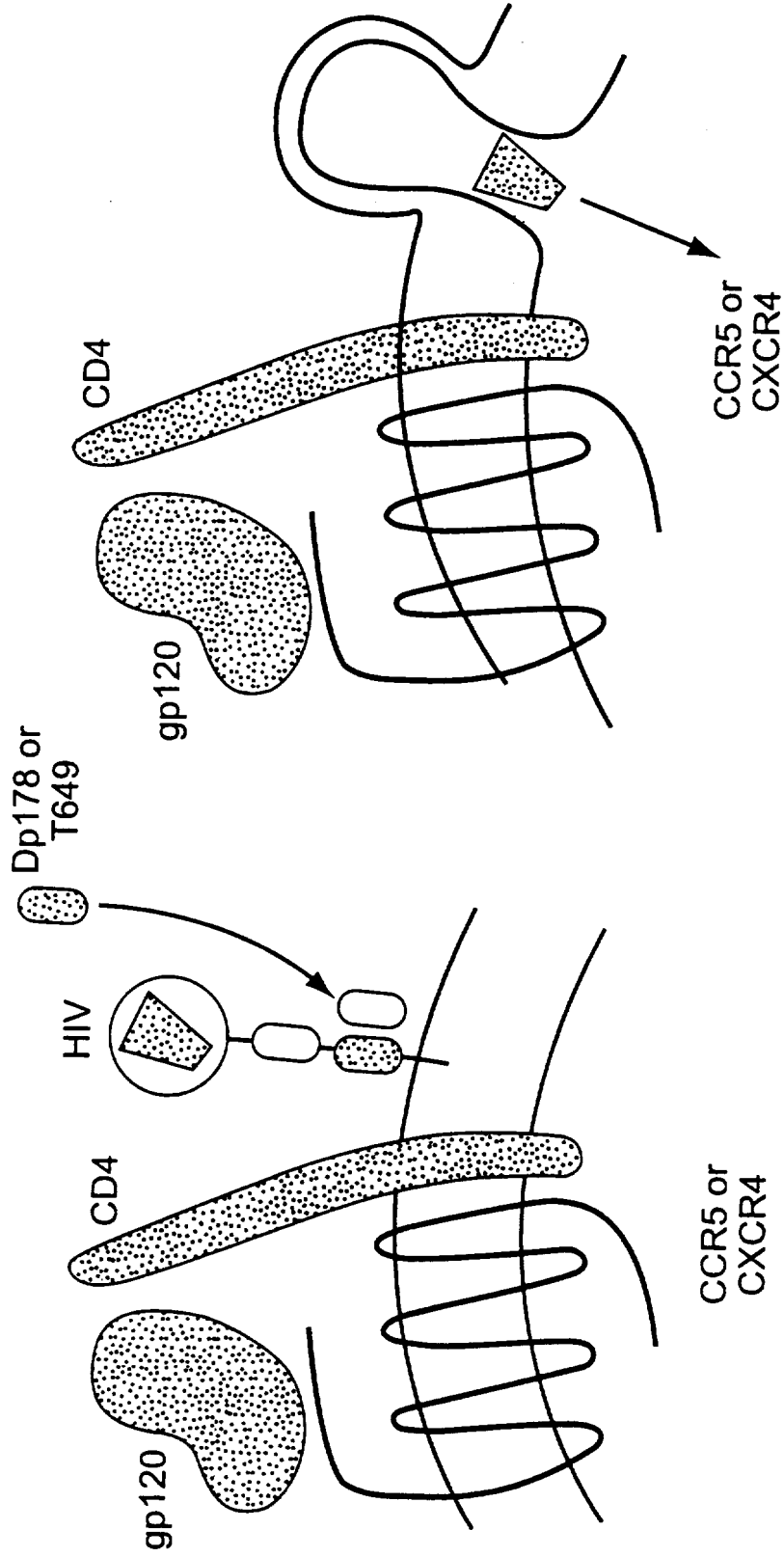


FIGURE 8



HIV fusion occurs
in the absence of
fusion inhibitory
peptide

HIV fusion blocked
by Dp178 or T649
peptides producing
"frozen" fusion intermediate

FIGURE 9

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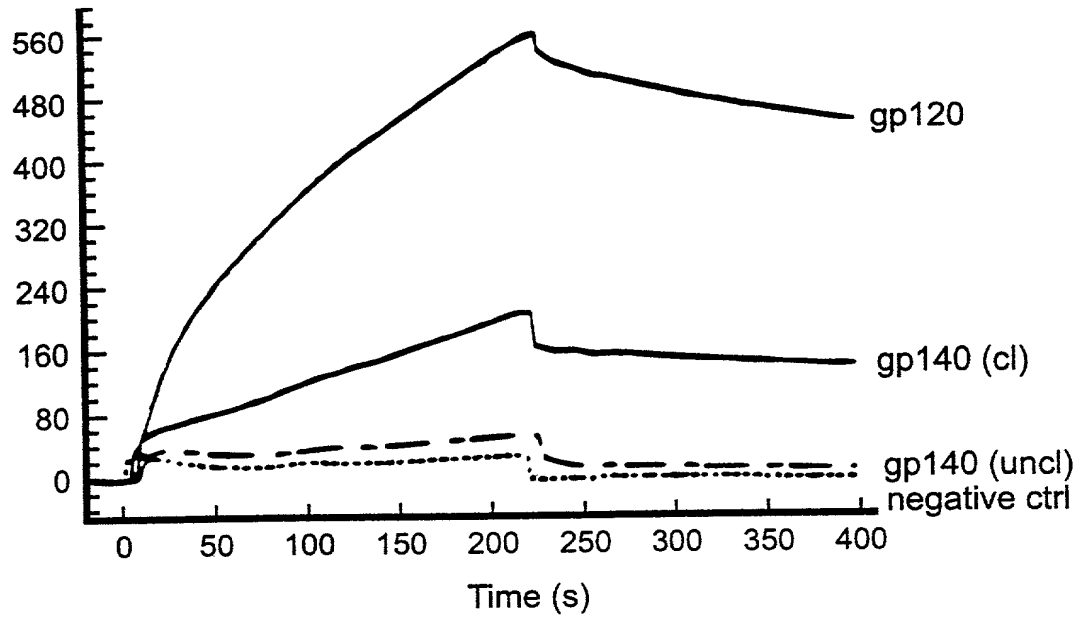


FIGURE 10A

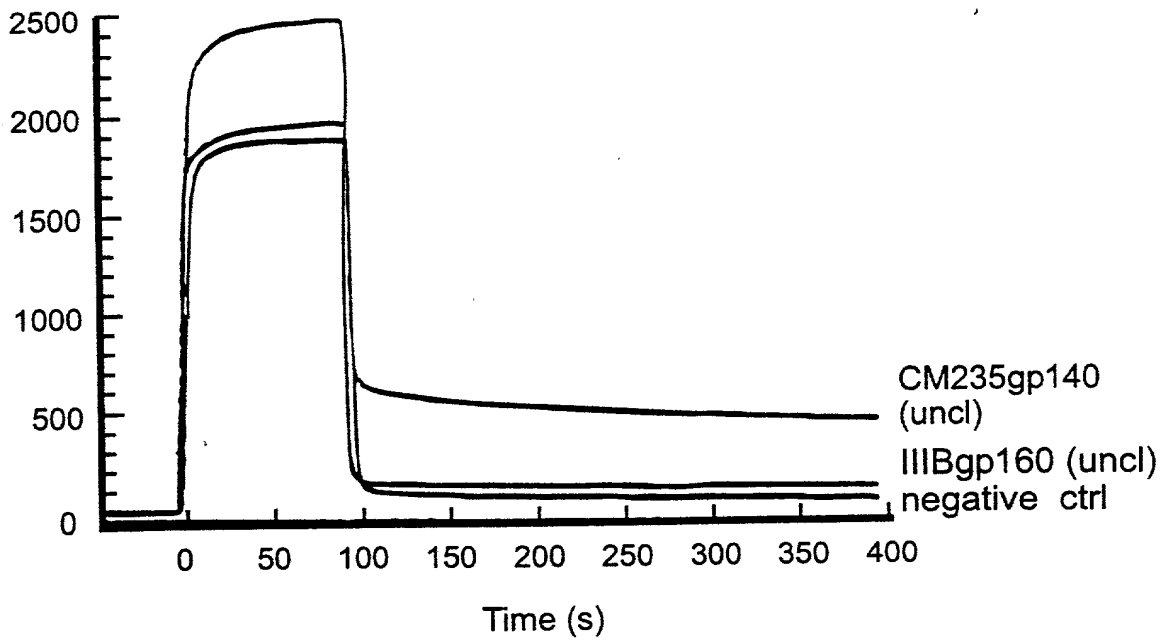


FIGURE 10B

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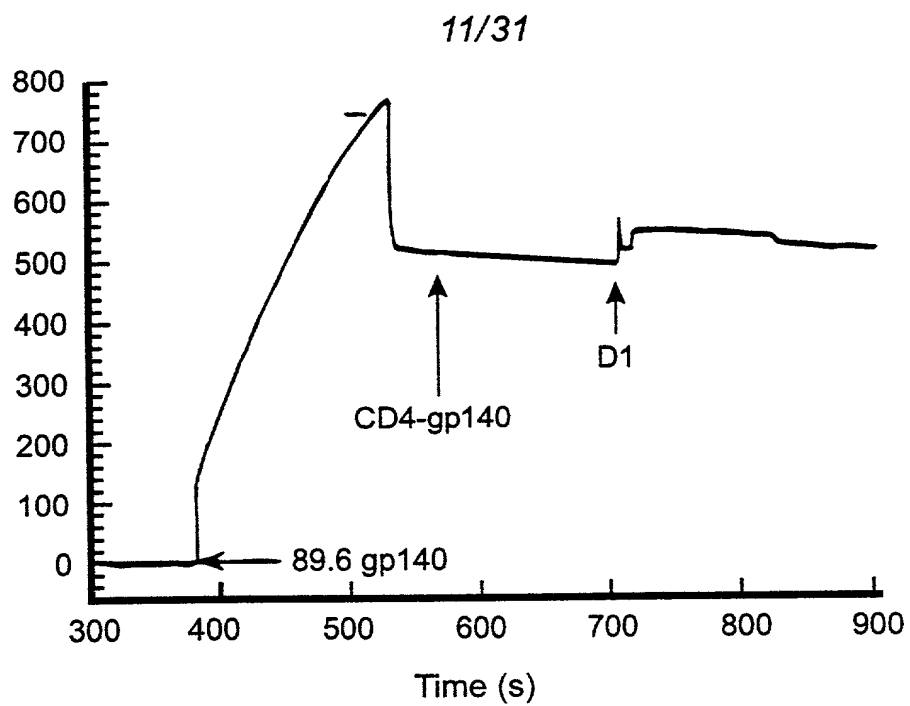


FIGURE 10C

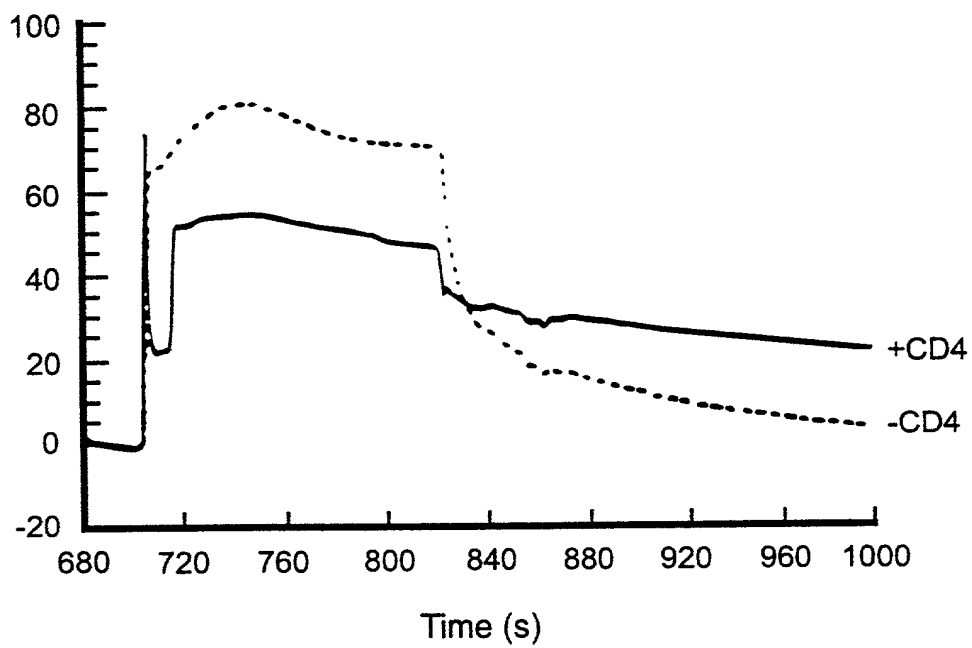


FIGURE 10D

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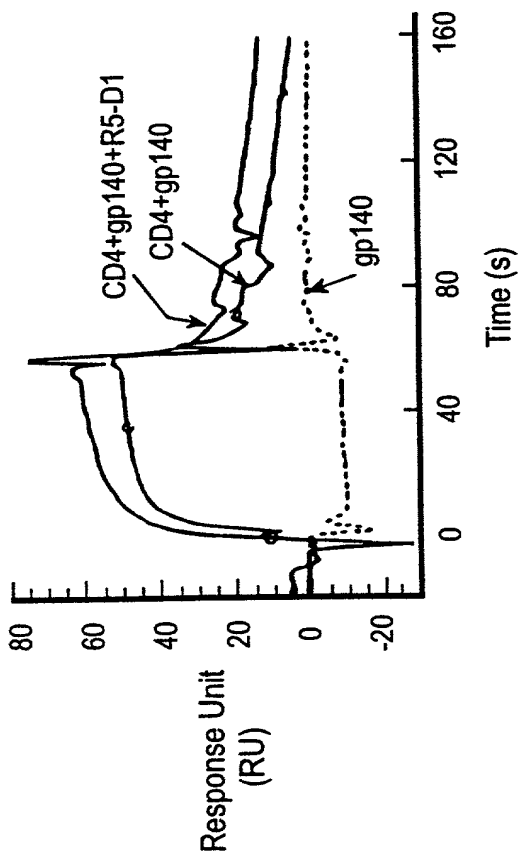


FIGURE 11B

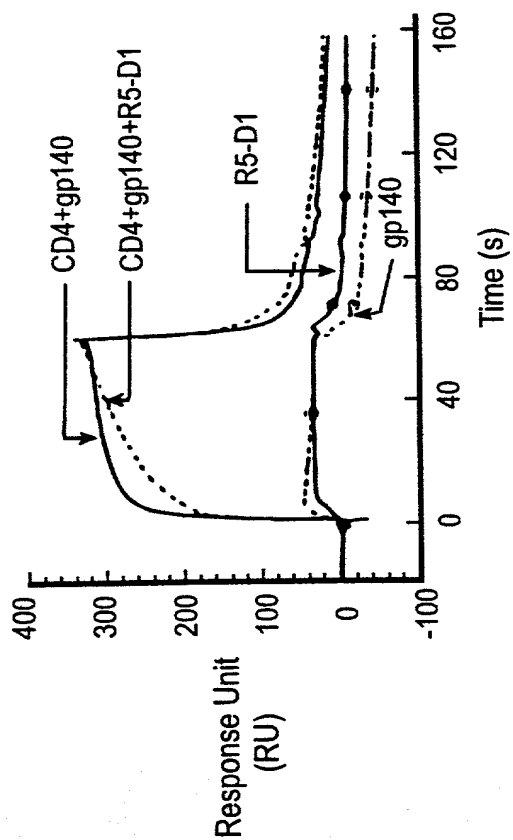


FIGURE 11A

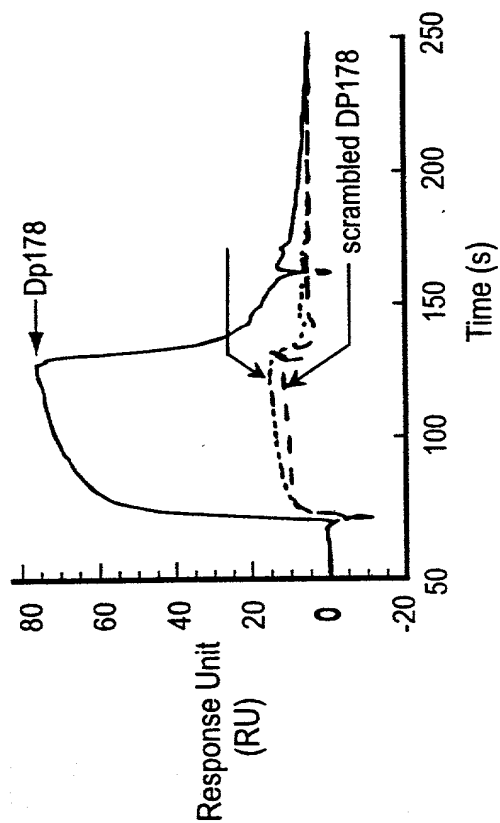


FIGURE 11C

89.6 gp140	K_a $M^{-1}s^{-1}$	K_d s^{-1}	K_d μM	$t_{1/2}$ s	R_m RU
<u>DP178</u>					
CD4+gp140	7.9×10^3	5.6×10^{-3}	0.7	124	320
CD4+gp140+R5-D1	3.47×10^3	3.86×10^{-3}	1.1	180	328
gp140+R5-D1	nm	nm	nm	nm	38
gp140	nm	nm	nm	nm	35
<u>T694QL</u>					
CD4+gp140	6.2×10^3	1.46×10^{-2}	2.4	48	53
CD4+gp140+R5-D1	5.1×10^3	5.3×10^{-3}	1.0	131	64
gp140+R5-D1	nm	nm	nm	nm	0
gp140	nm	nm	nm	nm	0

FIGURE 11D

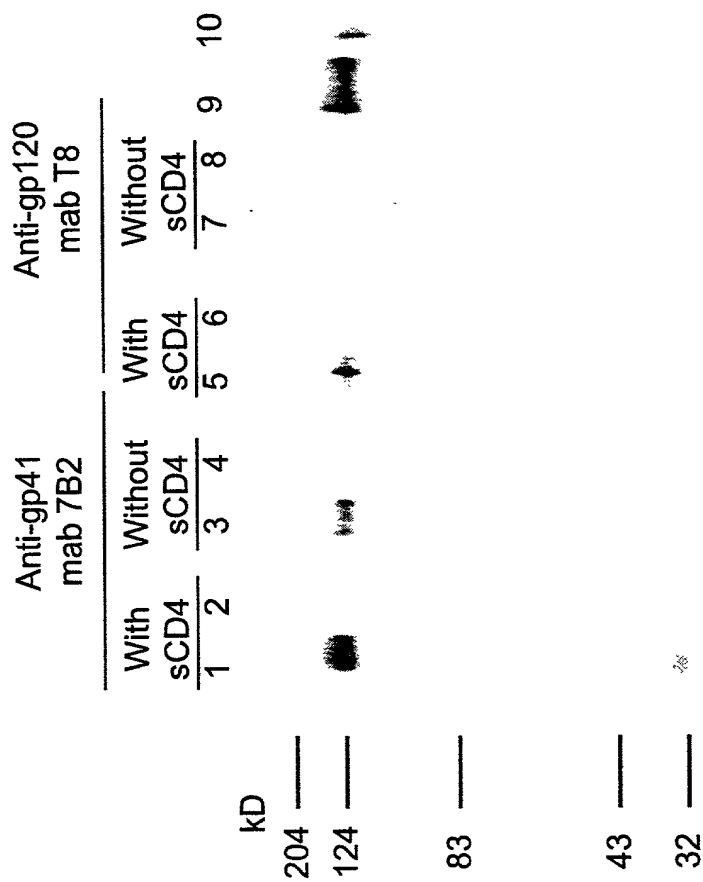


FIGURE 12

Induced Binding of HR-2 Peptides
to Soluble HIV 89.6 gp140 Envelope

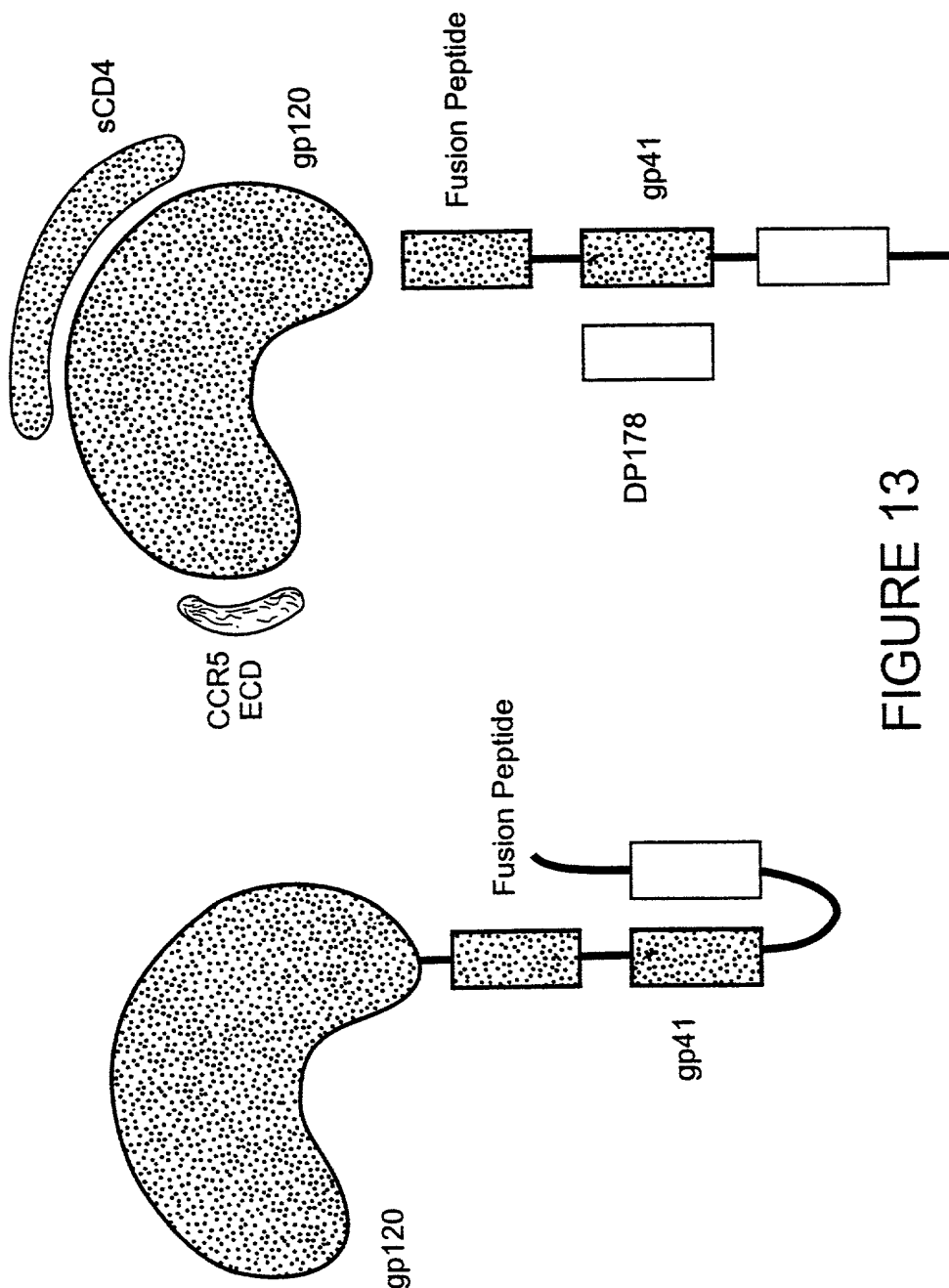


FIGURE 13

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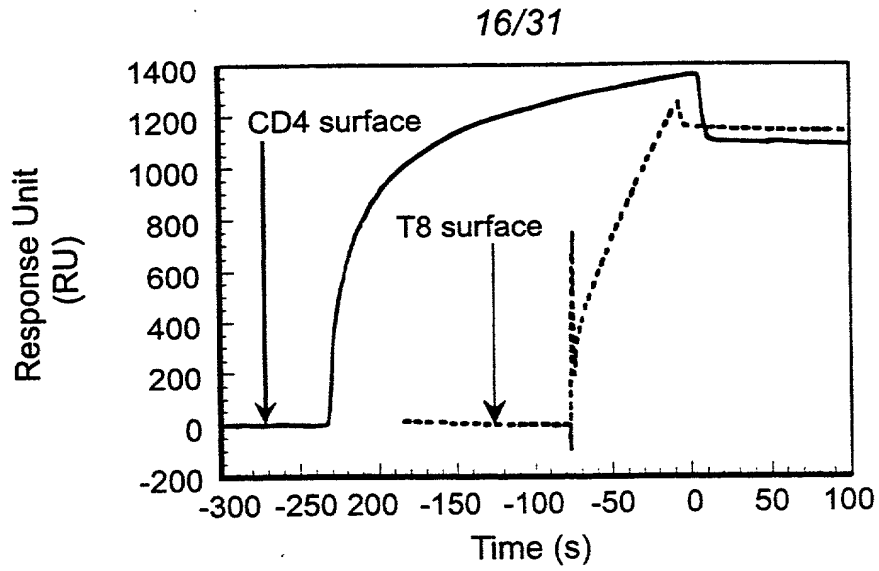


FIGURE 14A

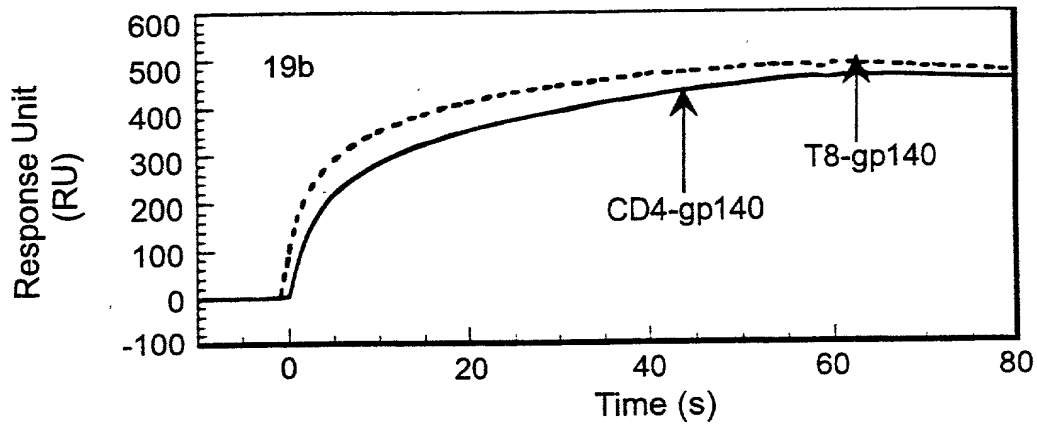


FIGURE 14B

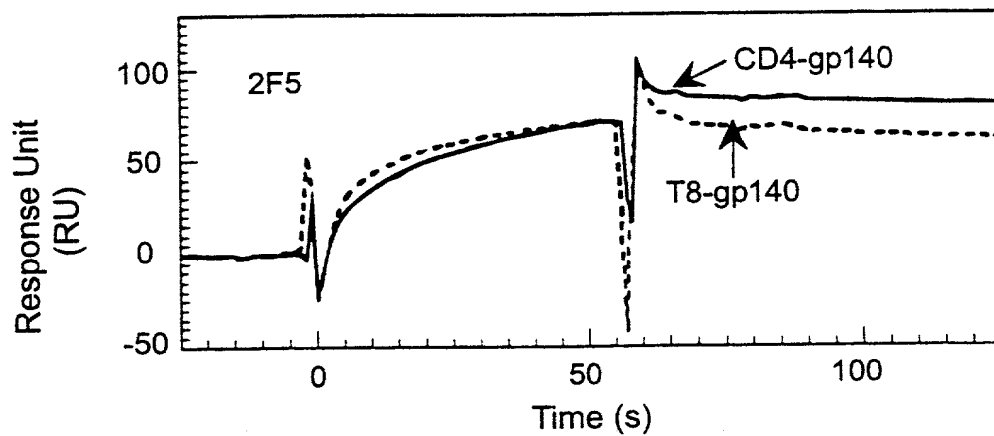


FIGURE 14C

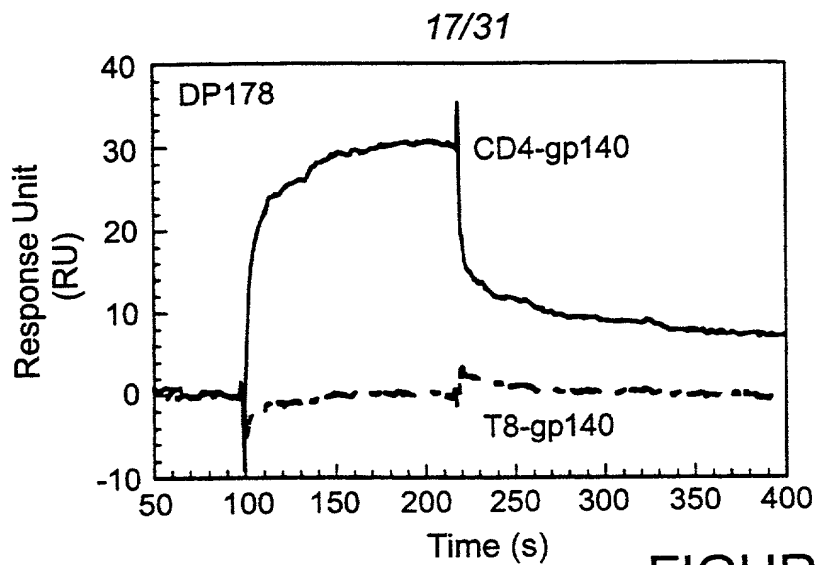


FIGURE 14D

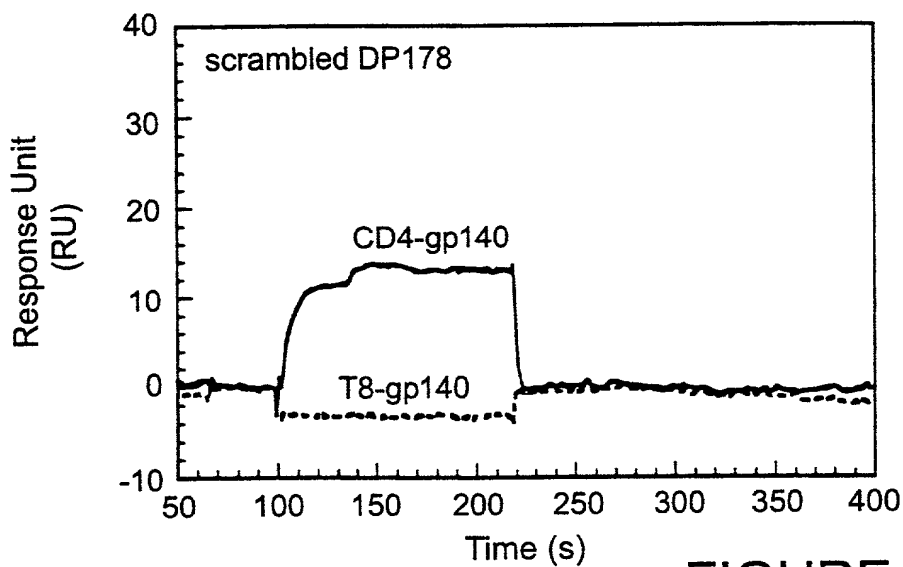


FIGURE 14E

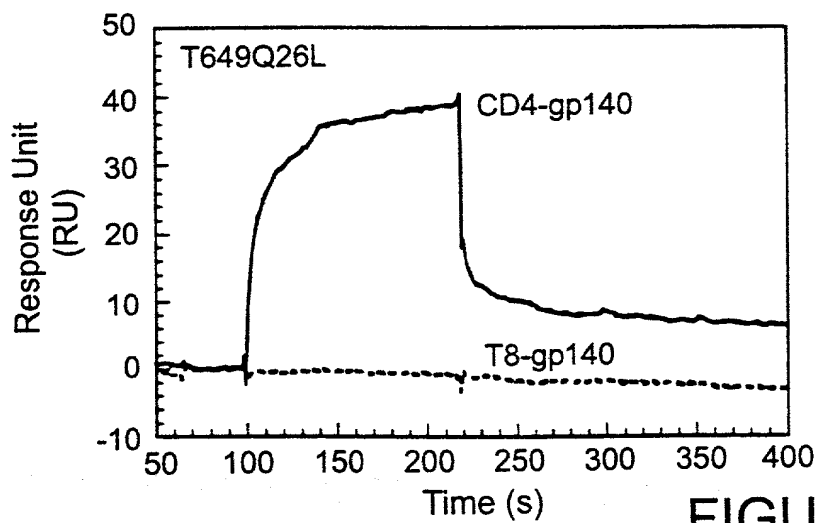


FIGURE 14F

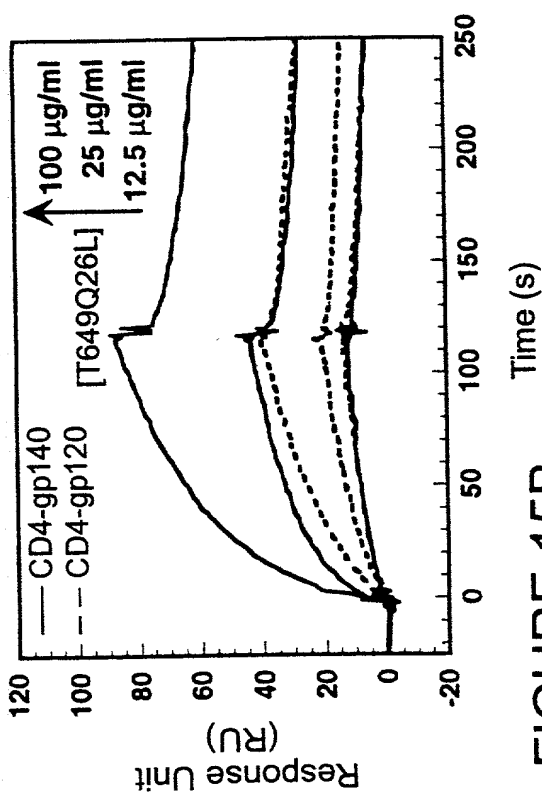


FIGURE 15A

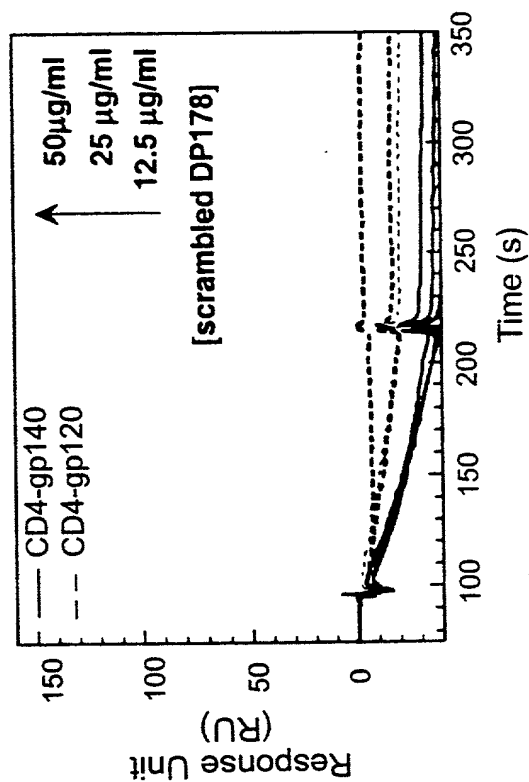


FIGURE 15B

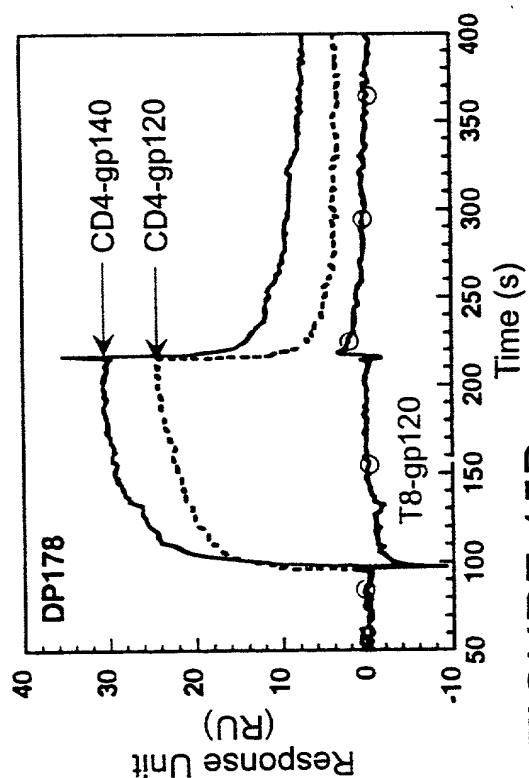


FIGURE 15C

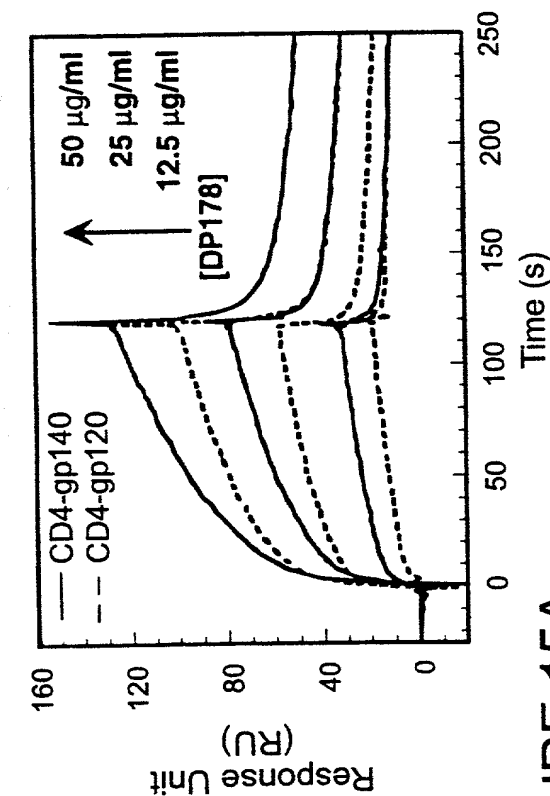


FIGURE 15D

	k_{on} $M^{-1}s^{-1}$	k_{off} s^{-1}	K_d μM	$t_{1/2}$ s
<u>DP178</u>				
CD4-gp120	0.75×10^3	1.5×10^{-3}	2.0	462
CD4-gp140	0.93×10^3	1.0×10^{-3}	1.1	693
<u>T649Q26L</u>				
CD4-gp120	1.26×10^3	3.2×10^{-3}	2.54	217
CD4-gp140	0.88×10^3	1.1×10^{-3}	1.20	630

FIGURE 15E

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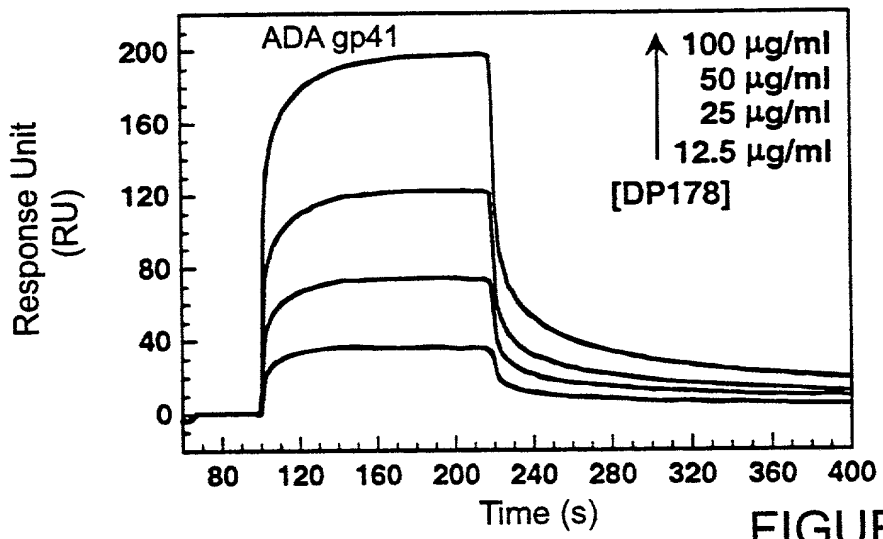


FIGURE 16A

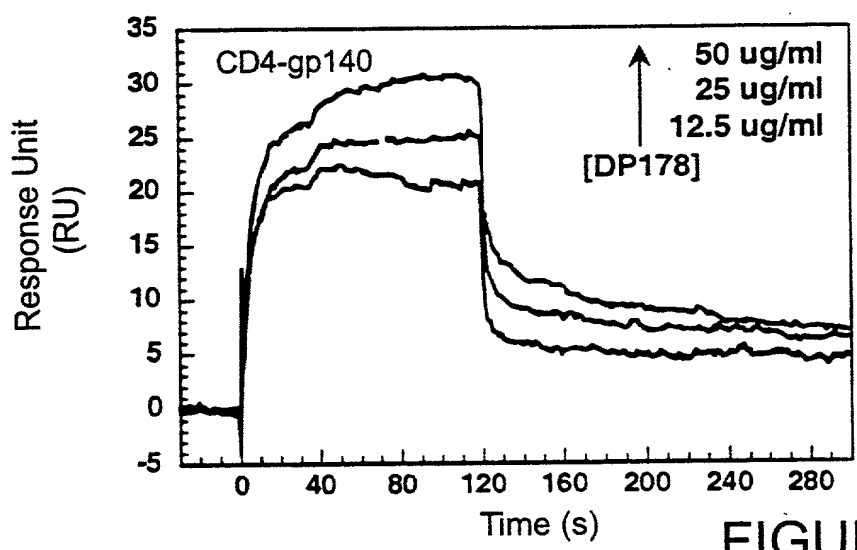


FIGURE 16B

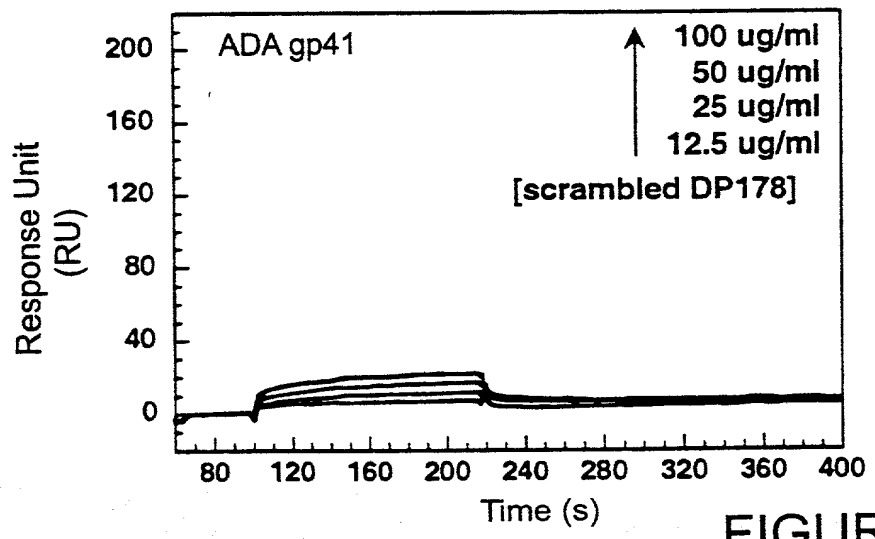


FIGURE 16C

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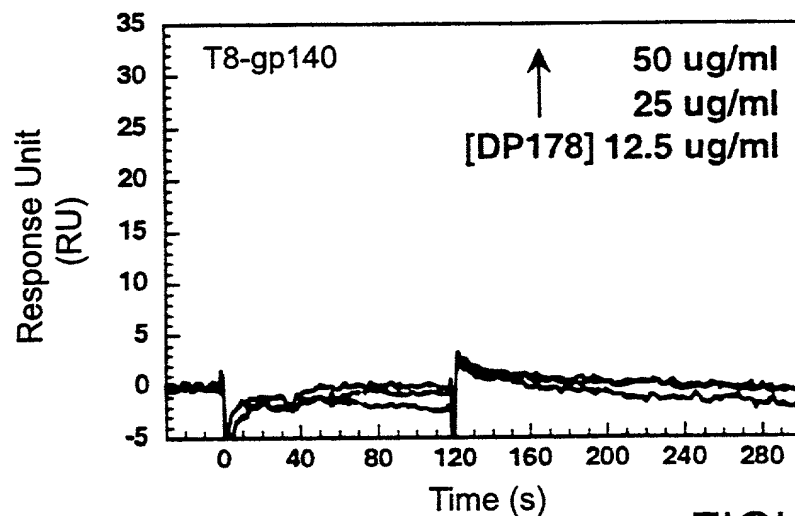


FIGURE 16D

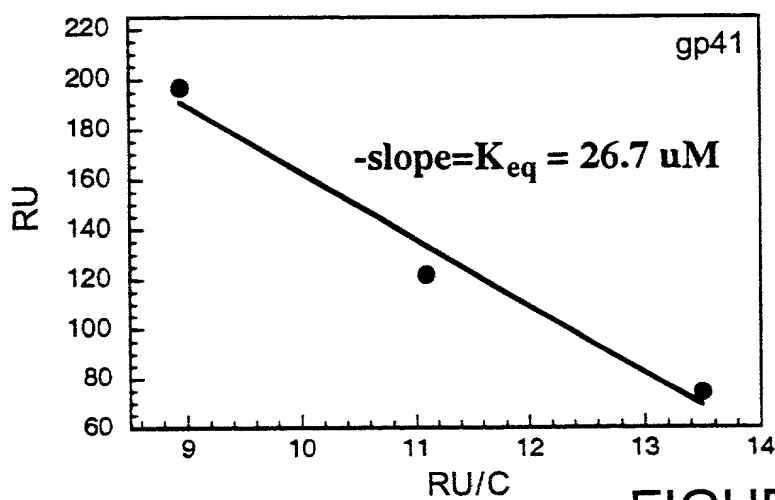


FIGURE 16E

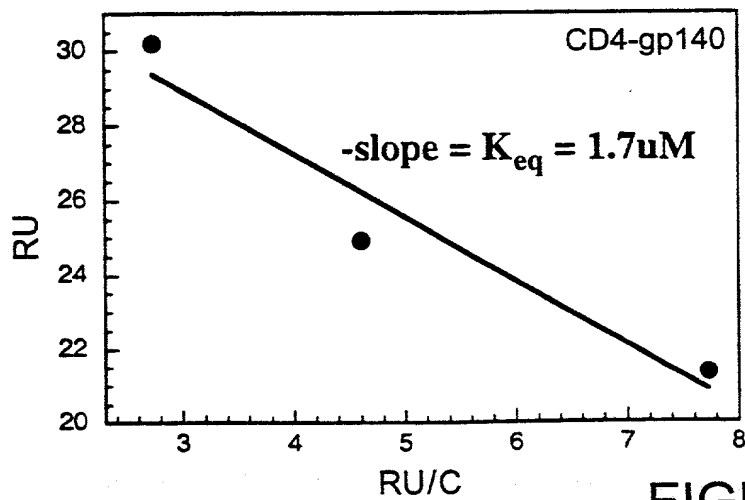


FIGURE 16F

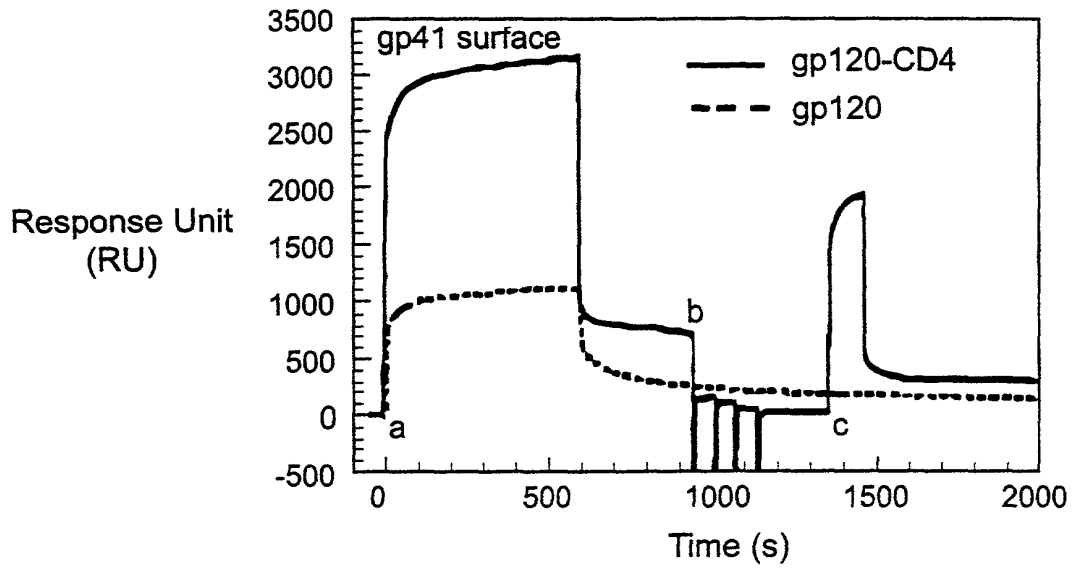


FIGURE 17A

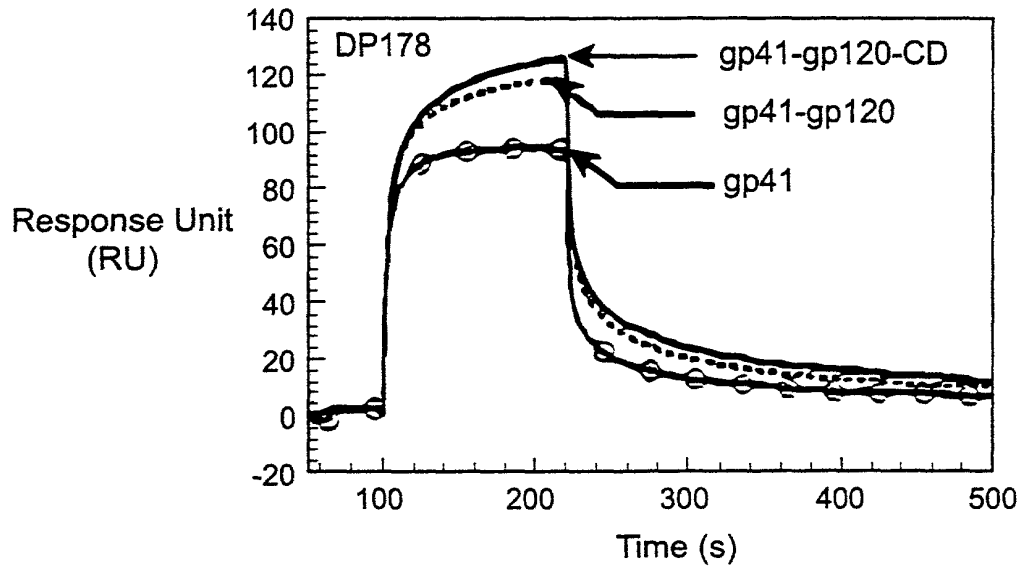


FIGURE 17B

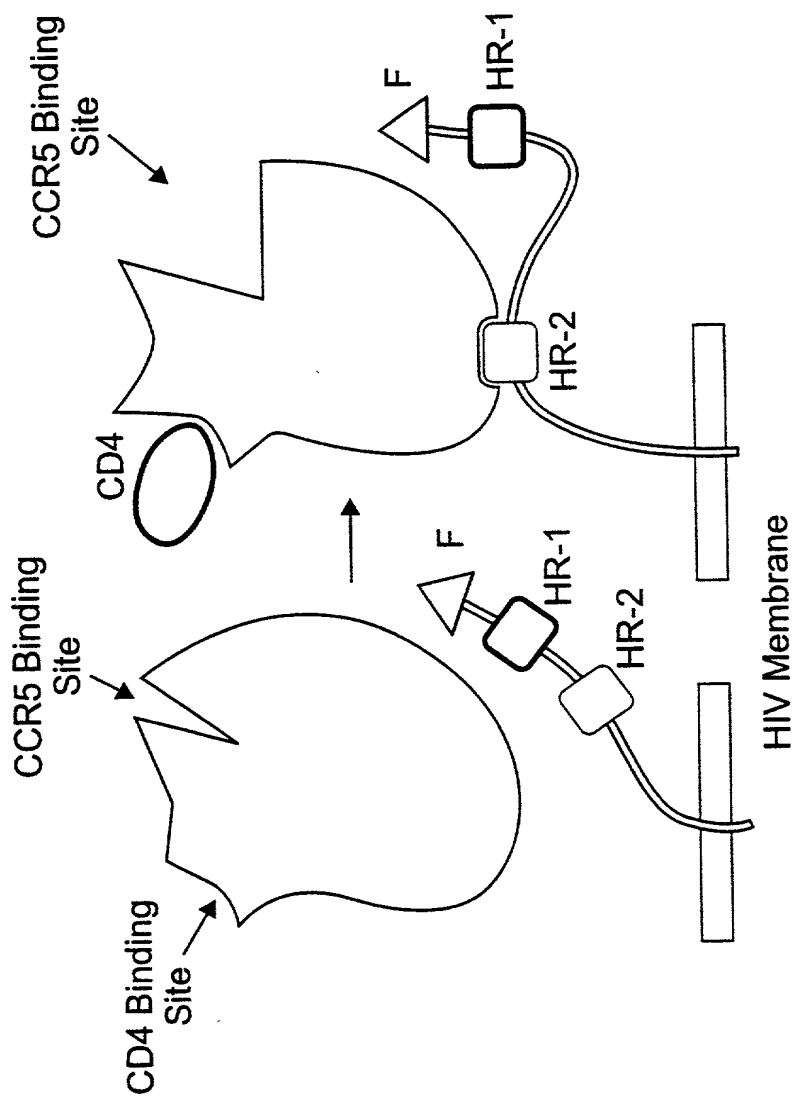


FIGURE 18

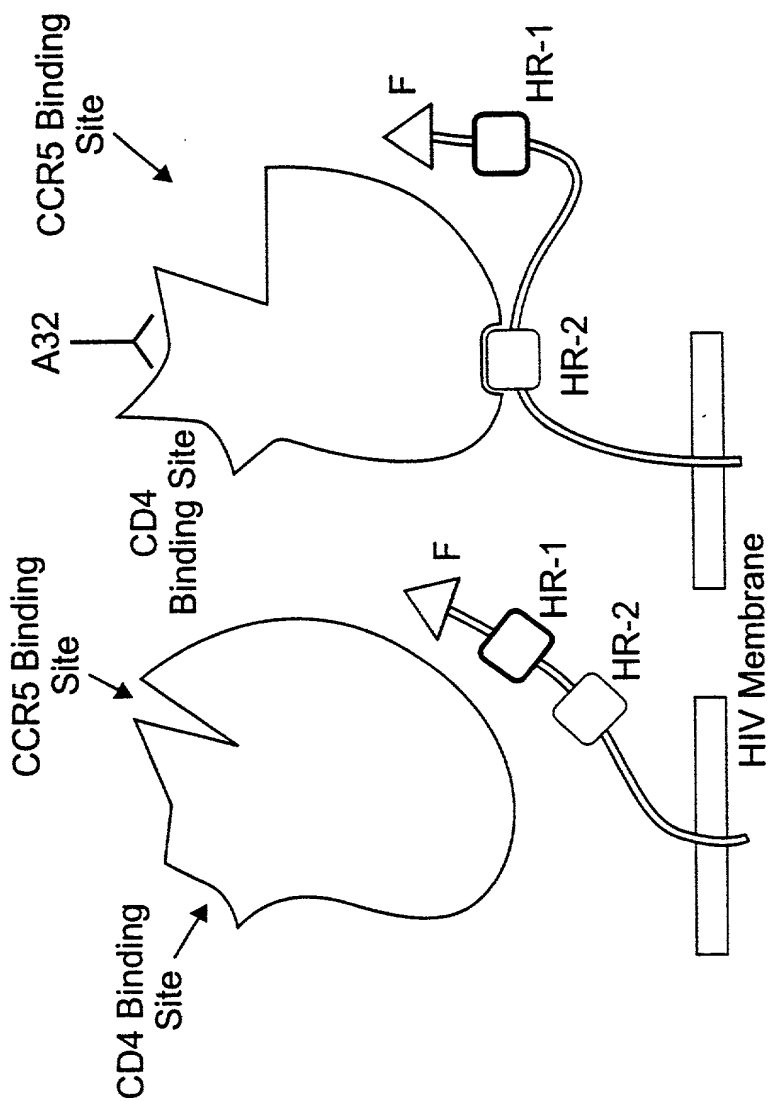


FIGURE 19

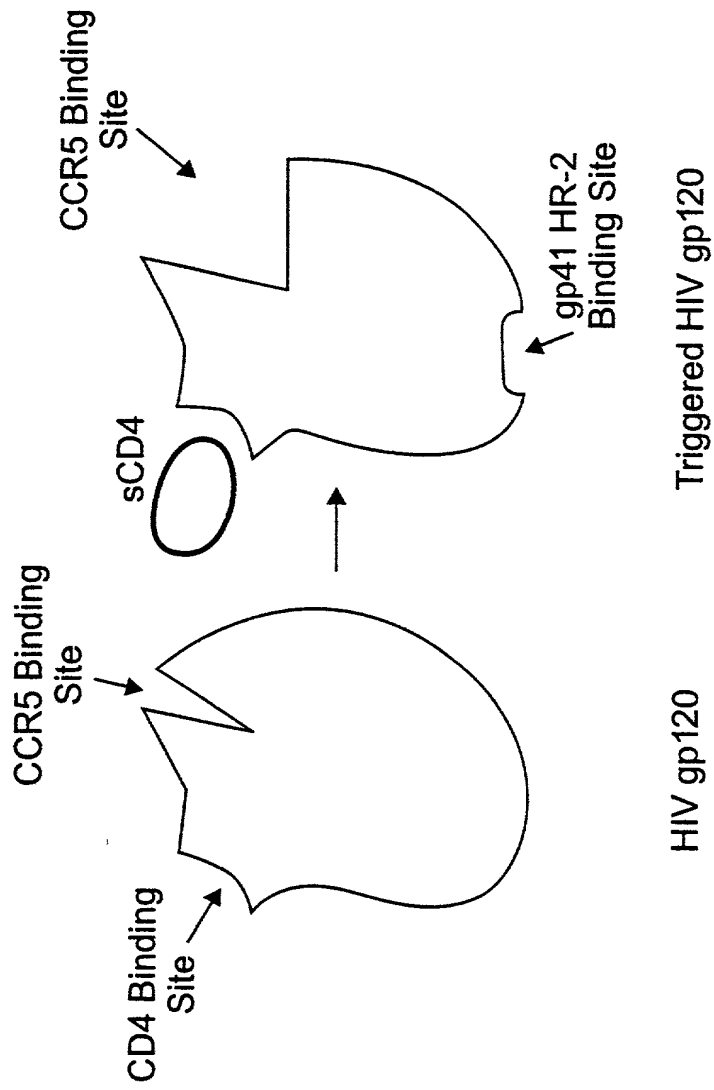


FIGURE 20

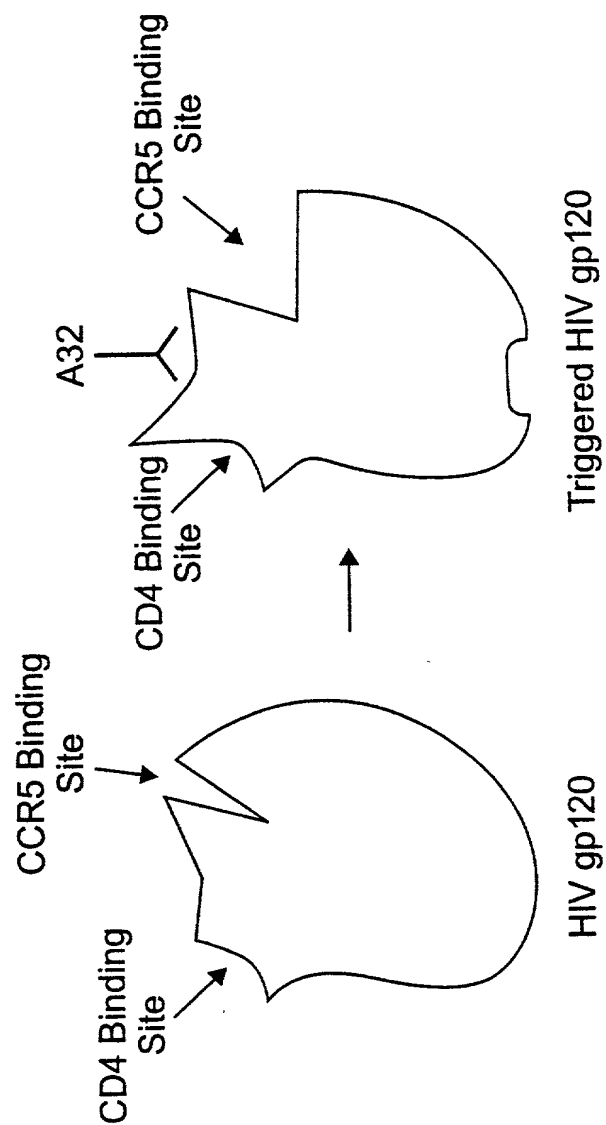


FIGURE 21

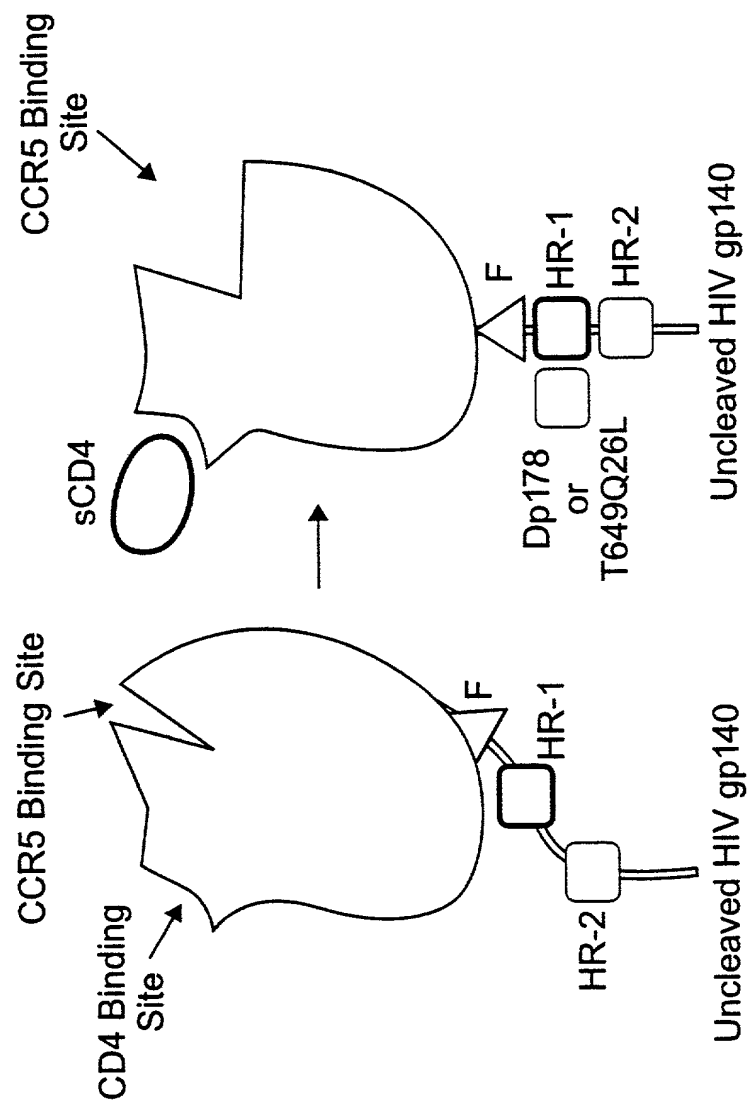


FIGURE 22

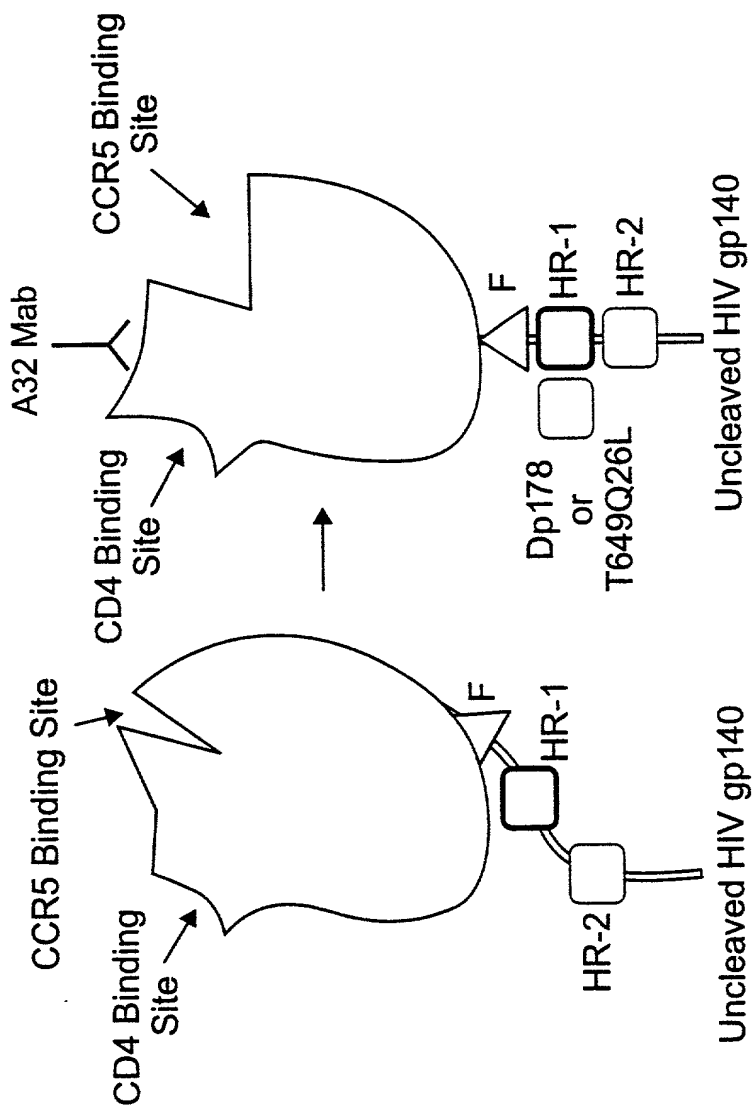


FIGURE 23

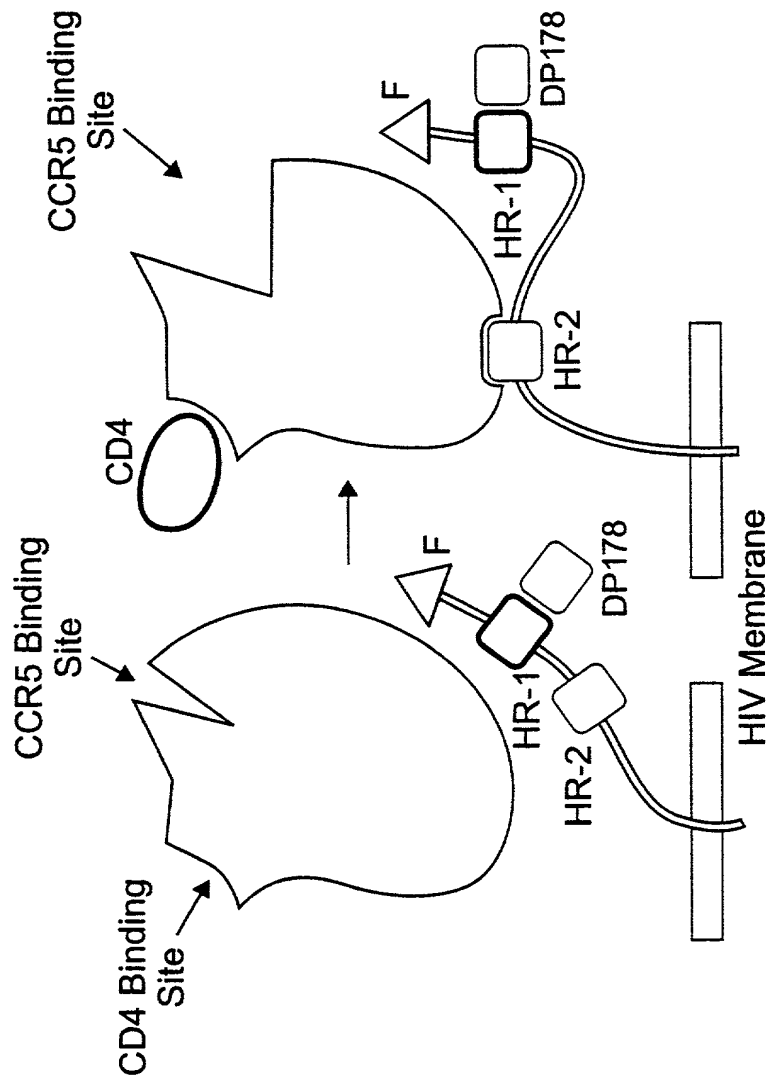


FIGURE 24

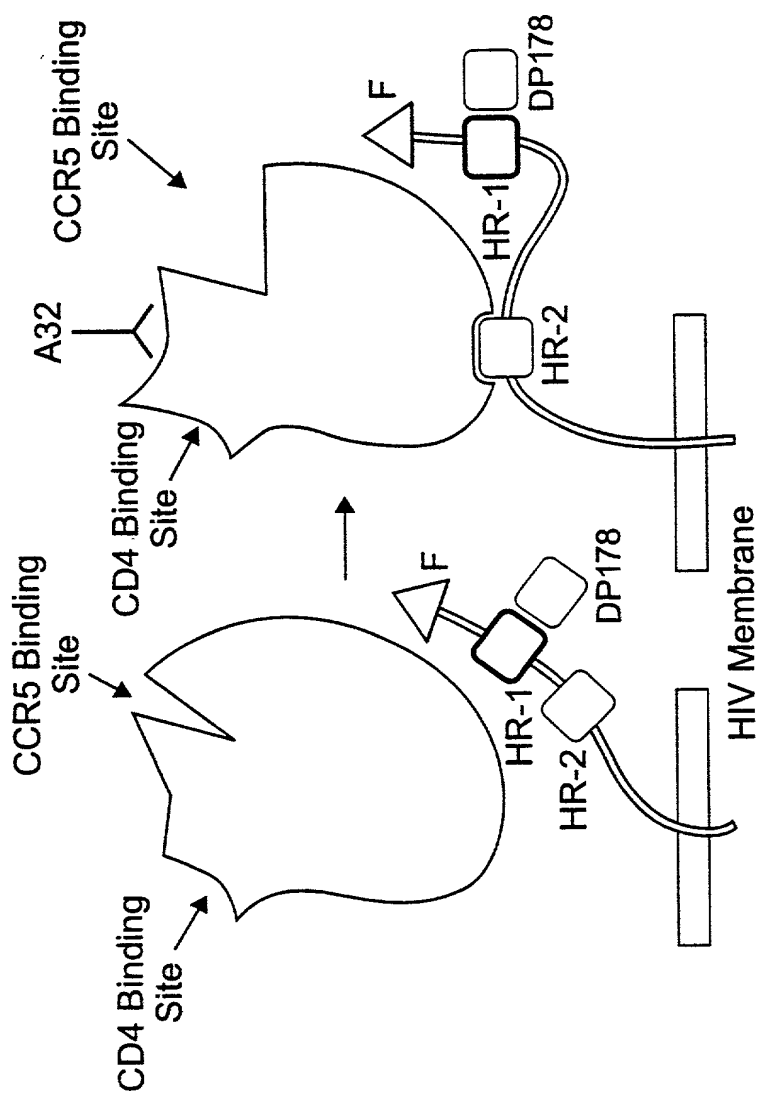


FIGURE 25

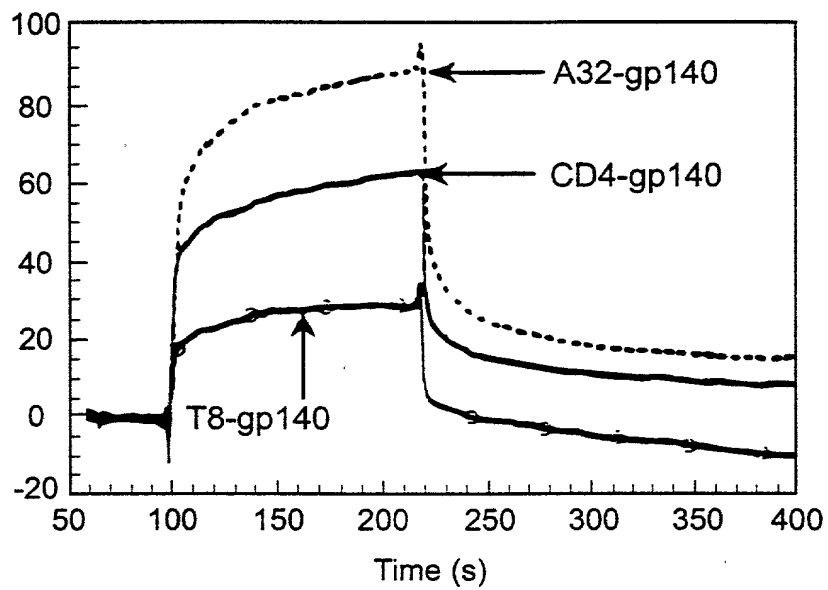


FIGURE 26